



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/933,832	08/22/2001	Nobuo Matsui	Q65917	7288

7590 03/17/2005
SUGHRUE, MION, ZINN, MACPEAK & SEAS
2100 Pennsylvania Avenue, N.W.
Washington, DC 20037

EXAMINER

GOFF II, JOHN L

ART UNIT PAPER NUMBER

1733

DATE MAILED: 03/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Supplemental
Notice of Allowability**

Application No.

09/933,832

Examiner

John L. Goff

Applicant(s)

MATSUI ET AL.

Art Unit

1733

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the RCE filed 12/27/04.
2. ☒ The allowed claim(s) is/are 1, 19-28 and 30.
3. ☒ The drawings filed on 22 August 2004 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>022805</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

22

SUPPLEMENTAL EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Peter Olexy on 2/28/05.

2. The following Supplemental Examiner's Amendment is to correct a typographical error in the Examiner's Amendment mailed 2/22/05. Paragraph 5, line 1 of the Examiner's Amendment should have read "Replace claim 24 with the following:". An additional change is made in claims 19 and 24 to replace "thermosetting temperature" with - - curing temperature - -, it being noted both require the same in that the temperature applied during curing is in a range of 100 to 130 °C.

3. The application has been amended as follows:

In the Claims:

Art Unit: 1733

4. Replace claim 19 with the following:

19. (currently amended): A method for bonding a plurality of non-magnetic members comprising the steps of:

(1) mating non magnetic members via an uncured adhesive interposed between their surfaces to be bonded;

(2) applying pressure to the mated portions of said non-magnetic members between a pressing magnet jig and a pressure-receiving, soft-magnetic jig; and

(3) curing said adhesive while applying pressure, wherein a pair of non-magnetic members are bonded together, and said non-magnetic members are half-cylindrical skin members made of a fiber reinforced composite material for constituting a fuselage of aircraft so as to reduce the weight of transport vehicles including aircraft, and

wherein a cushioning member is interposed only on a single side of said mated portions of said non-magnetic members between a pressing surface of said pressing magnet jig and outside surfaces of the mated portions of said non-magnetic members so as to subject the whole bonding surfaces to contacting uniformly with said adhesive sheet,

wherein an applying pressure for curing is in the range of 0.025 kg/cm^2 to 0.8 kg/cm^2 , and wherein a ~~thermosetting-curing~~ temperature of said adhesive sheet is in a range of 10°C to 130°C , and a heat resistance temperature of said magnet is not less than 130°C .

Art Unit: 1733

5. Replace claim 24 with the following:

24. (currently amended): A method for bonding a plurality of non-magnetic members comprising the steps of:

(1) mating non-magnetic members via an uncured adhesive interposed between their surfaces to be bonded;

(2) applying pressure to the mated portions of said non-magnetic members between a pressing magnet jig and a pressure-receiving, soft-magnetic jig; and

(3) curing said adhesive while applying pressure, wherein a cushioning member is interposed only on a single side of said mated portions of said non-magnetic members between a pressing surface of said pressing magnet jig and outside surfaces of the mated portions of said non-magnetic members so as to subject the whole bonding surfaces to contacting uniformity with said adhesive sheet,

wherein an applying pressure for curing is in the range of 0.025 kg/cm² to 0.8 kg/cm², and wherein a ~~thermosetting~~ curing temperature of said adhesive sheet is in a range of 10 °C to 130°C, and a heat resistance temperature of said magnet is not less than 130°C, and wherein said cushioning member comprises two separate parts each interposed on the single side of the mated portions of the non-magnetic member between the pressing surface of the pressing magnetic jig and the outside surfaces of the mated portions of the non magnetic members, said two separate parts being spaced apart sufficiently from each other to subject the whole bonding surfaces to contact uniformly.

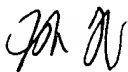
Art Unit: 1733

Conclusion

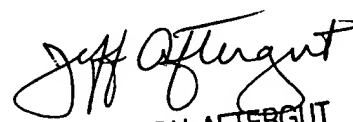
6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **John L. Goff** whose telephone number is **(571) 272-1216**. The examiner can normally be reached on M-F (7:15 AM - 3:45 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Blaine Copenheaver can be reached on (571) 272-1156. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



John L. Goff



JEFF H. AFTERGUT
PRIMARY EXAMINER
GROUP 1300